

"EXPRESS MAIL" MAINING LABEL NUMBER EV 325948479 US

I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Commissioner of Patents, Alexandria,

VA 22313-1450

Au 7, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Ronald Marshall Bass et al.

Serial No. 09/910,696

Filed July 20, 2001

ANNULUS FOR ELECTRICALLY HEATED

PIPE-IN-PIPE SUBSEA PIPELINE

RECEIVED

AUG 1 1 2003

Group Art Unit: 3672

OFFICE OF PETITIONS

Examiner:

August 7, 2003

COMMISSIONER FOR PATENTS Alexandria, VA 22313-1450

Sir:

FEE AND INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

For a foreign language document or documents, an English language translation is provided where it is readily available to Applicants' attorney. If no translation is available, an English language counterpart, where available, is provided or an English language abstract, where available, is provided.

FEE

The Commissioner is hereby authorized to charge to Deposit Account No. 19-1800, the fee set forth in 37 C.F.R. §1.17(p) associated with the filing of this Information Disclosure Statement.

Respectfully submitted,

05/03/2003 MBLANCO 00000022 191800 09910696

02 FC:1806

180.00 DA

P. O. Box 2463 Houston, Texas 77252-2463 Ronald Marshall Bass et al.

Attorney, Nellie A. Fisher Registration No. 47,563

(713) 241-5315

NAF\TH2106 IDS

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

TH-2106 (US)

APPLICATION NUMBER

09/910,696

APPLICANT

Ronald M. Bass et al.

FILING DATE 7/20/2001

GROUP ART UNIT

2001 3672

REFEREN	CE DES	IGNATION	U.S. PA	ATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass		Date if opriate
	AA	972,308	10/11/1910	Williamson				
	AB	1,231,202	6/26/1917	Saylor				
	AC	2,096,279	10/19/1937	Karcher	255	28		
= =	AD	2,178,720	2/23/1938	Daniels	219	47		
	AE	2,206,831	3/7/1938	Berthelsen	74	440		
	AF	2,217,857	4/17/1937	Byck	166	21		
	AG	2,224,403	12/10/1940	Lines	219	39		
	AH	2,306,831	12/29/1942	Proctor	219	39		
	AI	2,660,249	11/24/1953	Jakosky	166	17		
	Sund :		FOREIGN	PATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	Tran Yes	slation No
	AL	103,122	13/4/1937	wo	27.8	07.6	X	
	AM	1,070,907 + Abst.	24/01/01	EP	F16L59	14		X
	AN	1,359,445	4/3/1972	wo	F16L25	00	X	
· · · · ·	AO	1,437,587	31/7/1974	wo	F16L 13	10	X	1
	O'	L THER DOCUMENTS	(INCLUDING	<u> </u> AUTHOR, TITLE, DATE	 , PERTINENT I	 PAGES, ETC.)	<u> </u>	
	AR	"Cable-Free Electrica	al Systems for the	Oil to Gas Industry," Productivertisement, Copyright 199	luction Technolo			00 Kenric
	AS	"Dunbar in Depth," (Offshore Enginee	r, Dec. 1994, 2 pp.				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

EXAMINER

O 1 P E 3 C3 AUG 0 7 2003 3

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER

09/910,696

APPLICANT

Ronald M. Bass et al.

FILING DATE 7/20/2001

GROUP ART UNIT

/2001 3672

REFERENC	E DES	IGNATION	U.S. P	ATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass		Date if priate
	BA	2,678,377	5/11/54	Justiz	219	40		
	BB	2,714,930	8/9/1955	Carpenter	166	60	-	
	ВС	2,757,738	8/7/1956	Ritchey	166	39		
.	BD	2,851,197	9/9/1958	Colton	222	146	4	
	BE	2,982,354	4/26/1957	Green	166	60		<u> </u>
	BF	3,184,958	5/25/1965	Eaton	73	40.5	-	
	BG	3,388,724	6/18/1968	Mowell et al.	138	149		
	ВН	3,423,570	1/21/1969	Trabilcy	219	301		
	BI	3,432,186	3/11/1969	Braun	285	53		
			FOREIG	_ N PATENT DOCUMENT	S			p
		Document No.	Date	Country	Class	Subclass	Trans Yes	lation No
-	BL	1,532,730	18/10/1976	WO	F16L 25	01	X	
	BM	2,084,284	7/4/1982	GB	F16L 53	00	X	1
	BN	569,815 + Abst.	16/09/77	SU	F3013A	27	 	X
	O'	L THER DOCUMENTS	(INCLUDING	L AUTHOR, TITLE, DATI	 E, PERTINENT	PAGES, ETC	<u> </u> .)	
	BR	"Introduction to Dire Norge and EFI, Feb.		bsea Pipelines,"overview b	byStatoil, Saga P	etroleum, CSO	Norge, A	lcatel, Kal
	BS	"Monolithic Pipeline advertisement, Nov.		ion Joints," HydroTech Sy	stems, Inc., Eng	ineered Pipeline	Products	,
	BT			(DPIS) Designed by Snamilan, Italy, advertisement, 6		progetti Offshor	e Divisior	ı, Viale de

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.



(Use several sheets if necessary)

ATTY. DOCKET NO. TH-2106 (US)

APPLICATION NUMBER 09/910,696

LIST OF INFORMATION PROVIDED BY APPLICANT

APPLICANT

Ronald M. Bass et al.

FILING DATE

GROUP ART UNIT

				7/20/2001	3672			
REFERENC	E DES	IGNATION	U.S. P	PATENT DOCUMENTS	 			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Appro	Date if priate
	CA	3,439,075	4/15/1969	Bauer et al.	264	45		
	СВ	3,507,330	4/21/1970	Gill	166	248	REC	EIVED
	CC	3,515,837	6/2/1970	Ando	219	10.49	AUG 1	1 2003
	CD	3,547,193	12/15/1970	Gill	166	248 OF	FICE OF	PETITIONS
	CE	3,556,218	1/19/1971	Talley, Jr. et al.	166	265		
	CF	3,605,888	9/20/1971	Crowson et al.	166	248		
	CG	3,614,986	10/26/1971	Gill	166	303		
	СН	3,620,300	11/16/1971	Crowson	166	248		
	CI	3,630,038	12/28/1971	Ando	61	72.1		
	CJ	3,642,066	2/15/1972	Gill	166	248		
	CL	3,706,872	12/19/1972	Trabilcy	219	300		
y			FOREIG	N PATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	Trans Yes	
	CL							
9	O	THER DOCUMENT	 TS (INCLUDING	AUTHOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)	<u> </u>	
en e	CR	"Skin Effect Pipe I	leating Systems,"	Thermo Systems Technology twood, Ohio 44122, Copyrigh	, Inc. (TST), F	our Commerce l		re, 23200
	СТ			Your Well's Full Potential kas 77032, advertisement, Co			Inc. (PTI)), 15423
EXAMINER	<u> </u>		*****	DATE CONSIDERED				

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER 09/910,696

LIST OF INFORMATION PROVIDED BY APPLICANT

APPLICANT

(Use several sheets if necessary)

Ronald M. Bass et al.

FILING DATE GROUP ART UNIT 7/20/2001 3672

				7/20/2001	3672		
REFERENC	CE DES	IGNATION	U.S. PA	ATENT DOCUMENTS			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	DA	3,789,188	1/29/1994	Rudbarg	219	301	
	DB	3,859,503	1/7/1975	Palone	219	278	
	DC	3,885,595	5/27/1975	Gibson et al.	138	155	
	DD	3,933,031	1/20/1976	Uhlarik	73	40.5 R	
	DE	3,935,632	2/3/1976	Maxson	29	455 R	
	DF	3,944,262	3/16/1976	Stiner et al.	285	53	
	DG	3,958,636	5/25/1976	Perkins	166	248	
	DH	3,975,617	8/17/1976	Othmer	219	300	
	DI	3,981,181	9/21/1976	Ochiai	73	40.5 R	
	i de gradikî jî Li e gradikî jî Li de kalê	1. 《高兴》,一种世家和李老师的中 中央河流,"他"也不是是"夏惠"。	FOREIGN	PATENT DOCUMENTS			
- 1-		Document No.	Date	Country	Class	Subclass	Translation Yes No
	DL						
Ar erra	O	THER DOCUMENTS	(INCLUDING	AUTHOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)	
· · · · · · · · · · · · · · · · · · ·	DR	"Tubing Casing Wire	eless Telemetry (Tucas System),"Schlumberg	er web page (1	993?/ Jun. 1996), 16 pp.
	DT	A. Anselmi et al., "T vol. 5, Pipeline Tech		Inderwater Technology in th 1994, pp. 69-76.	e Field of Trac	ed Insulated Pip	pelines," 1994 OMA
	1						

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

EXAMINER



ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER 09/910,696

APPLICANT

Ronald M. Bass et al.

(Use several sheets if necessary)

LIST OF INFORMATION PROVIDED

BY APPLICANT

FILING DATE

GROUP ART UNIT 3672

	1/20/2001)
_		

REFERENC	E DES	IGNATION	U.S. PATI	ENT DOCUMENTS				10-2-3
Examiner Initial		Document No.	Date	Patentee	Class	Subclass		Date if opriate
	EA	3,983,360	9/28/1976	Offerman	219	301		·
	EB	4,010,799	3/8/1977	Kern et al.	166	248		
<u> </u>	EC	4,011,652	3/15/1977	Black	29	455 R		
	ED	4,017,102	4/12/1977	Henderson	285	41	1	
	EE	4,140,179	2/20/1979	Kasevich et al.	166	248		
	EF	4,142,093	2/27/1979	Offerman	219	301		
	EG	4,319,632	3/16/1982	Marr, Jr.	166	60		.
	EH	4,401,162	8/30/1983	Osborne	166	248		
	EI	4,450,711	5/29/1984	Claude	73	40.5 R		
·	EJ	4,496,174	1/29/1985	Mcdonald et al.	285	53		
	l , d y s e		FOREIGN PA	ATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	Trans Yes	slation No
	EL							
	o	THER DOCUMENTS (INCLUDING AU	THOR, TITLE, DATE, I	PERTINENT	PAGES, ETC.)	<u>. I.</u> Nasanangan sa
· · · · · · · · · · · · · · · · · · ·	ER	Anonymous, "Insulated www.bayoupip.com/4N		Engineering, June 2000, Th 3-4.thm, 2 pages.	e Bayou Bulle	etin, Issue #8 fro	m	
	ES	Anonymous, "Insulated Issue 20, page 61.	Technique to see f	first use in North Sea Deve	lopment", Ma	y 17, 1993, Oil a	and Gas Jo	urnal vol. 91,
EXAMINER			1	DATE CONSIDERED	•		. <u>, , ,</u>	

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

AUS 0 7 2003

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER 09/910,696

APPLICANT

Ronald M. Bass et al.

FILING DATE 7/20/2001

GROUP ART UNIT

2001 3672

REFERENC	E DES	IGNATION	U.S. PA	TENT DOCUMENTS			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	FA	4,522,578	6/11/1985	Jameson et al.	425	110	
	FB	4,553,023	11/12/1985	Jameson et al.	219	301	
	FC	4,590,971	5/27/1986	Webster	138	149	
	FD	4,644,780	2/24/1987	Jeter	73	40.5	
	FE	4,645,906	2/24/1987	Yagnik et al.	219	301	
	FF	4,667,505	5/26/1987	Sharp	73	40.5 R	
	FG	4,684,786	8/4/1987	Mann et al.	219	297	
	FH	4,716,960	1/5/88	Eastlund et al.	166	60	
	FI	4,768,455	9/6/88	Maxson et al.	114	264	
		* 数字 かり か	FOREIGN	PATENT DOCUMENTS			
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	FL						
	O'	THER DOCUMENTS	(INCLUDING A	AUTHOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)	1 1 2 2
	FR	B. J. Eastlund et al., ".	New System Sto	ps Paraffin Buildup," Petrol	eum Engineer,	Jan. 1989, 3 pp.	
	FS	Brochure -Combi Pipe	e -the end of clos	gged pipelines, Alcatel Cont	racting Norwa	y and Aker Engi	neering, 7 pp.
EXAMINER	<u> </u>	<u> </u>		DATE CONSIDERED			

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

AUS 0 7 2003

FORM PTO-1449 (Modified)

ATTY. DOCKET NO. TH-2106 (US) **APPLICATION NUMBER** 09/910,696

APPLICANT

Ronald M. Bass et al.

(Use several sheets if necessary)

LIST OF INFORMATION PROVIDED

BY APPLICANT

FILING DATE

GROUP ART UNIT

7/20/2001 3672

REFERENC	E DES	IGNATION	U.S. PA	TENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass		Date if priate
	GA	4,831,324	5/16/1989	Aşakura et al.	324	57 R		
	GB	4,839,644	6/13/1989	Safinya et al.	340	854		
	GC	4,861,074	9/29/1989	Eastlund et al.	285	53		
	GD	4,874,925	10/17/1989	Dickenson	249	301		
	GE	4,970,467	11/13/1990	Burnett	324	637		
	GF	4,992,001	2/12/1991	Harrison	405	166		
	GG	4,996,879	3/5/1991	Kruka et al.	73	592		
	GH	5,072,622	12/17/1991	Roach et al.	73	40.5 R		
	GI	5,172,730	12/22/1992	Driver	138	104		
	GJ	5,189,374	2/23/1993	Burnett	324	534		
	Linguis Silving Temperatura		FOREIGN	PATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	Trans Yes	lation No
	GL							
	O'	THER DOCUMENTS	(INCLUDING A	UTHOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)		
	GR			st -Compressed Gas Insulate treet, Westborough, MA 01			pe CGIT,	ABB
	GS		st Pass East Bay	O79 Construction of the Cog Central Facilities, Offshore department, *, 6 pp.				
EXAMINER				DATE CONSIDERED			·	<u> </u>

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED

BY APPLICANT

BY APPLICANT (Use several sheets if necessary)

ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER 09/910,696

APPLICANT

Ronald M. Bass et al.

FILING DATE 7/20/2001

GROUP ART UNIT

3672

				//20/2001	3672					
REFERENC	E DES	IGNATION	U.S. PA	TENT DOCUMENTS			No.			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate			
	HA	5,270,661	12/14/1993	Burnett	324	527				
	НВ	5,289,561	2/22/1994	Filho	392	478				
	HC	5,421,675	6/6/1995	Brown et al.	405	170				
	HD	5,464,307	11/7/1995	Wilkins	405	166				
	HE	5,490,562	2/13/1996	Arnold	166	267				
	HF	5,605,798	2/25/1997	Koster	435	6				
	HG	5,801,953	9/1/1998	Thoma et al.	364	487				
	НН	5,836,719	11/17/1998	Martin et al.	405	166				
	ні	5,905,194	5/18/1999	Strong	73	40.5				
			FOREIGN	PATENT DOCUMENTS		A Community of the second seco				
		Document No.	Date	Country	Class	Subclass	Translation Yes No			
	HIL									
	<u>'</u> 'O'	HER DOCUMENTS	 (INCLUDING A	L UTHOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)				
	HS	Compressed Gas Insu MA, US 22 pages.	lation Transmiss	ion Bus Ducts, ABB Power	T&D Compan	y, CGIT/PB Div	vision, Westboroug			
	нт		eLuca, "Field of Dreams", April 1, 2001, Offshore Engineering, form www.online.com/news/features/oe/2001 401.Fields 0.520.asp, 9 pages.							

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.



ATTY. DOCKET NO. TH-2106 (US)

APPLICATION NUMBER 09/910,696

APPLICANT

RECEIVED

LIST OF INFORMATION PROVIDED

BY APPLICANT

Ronald M. Bass et al.

ALIG 1 1 2003

(Use sev	eral sh	eets if necessary)		FILING DATE 7/20/2001	GROUP	ART UNIT	OF PETITIONS		
REFERENC	E DES	IGNATION	IIS PA	ATENT DOCUMENTS					
Examiner Initial	222	Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate		
	IA	6,000,438	12/14/1999	Ohrn	138	149			
	IB	6,049,657	4/11/2000	Sumner	392	469			
.,	IC	6,058,979	5/9/2000	Watkins	138	149			
	ID	6,114,857	9/5/2000	Kohl	324	534			
	ΙE	6,179,523	1/30/2001	Langner et al.	405	169			
	IF	6,278,095	8/21/2001	Bass et al.	219	629			
de las les les les les les les les les les le			FOREIGN	PATENT DOCUMENTS		a de la companya de l			
		Document No.	Date	Country	Class	Subclass	Translation Yes No		
	IL								
	O	L THER DOCUMENTS	· (INCLUDING A	 UTHOR, TITLE, DATE	, PERTINENT	PAGES, ETC.			
	IR			f Pipelines, and Power Sup Inutsen, Alcatel Contractin					
-	IS	F. R. Newbold and T. Technology, JulSep.		ellbore Transmission of Ele pp. 3-52.	ectrical Power,",	The Journal of	Canadian Petroleum		
EXAMINER				DATE CONSIDERED		- .			

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject 1.
- 2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

(Use several sheets if necessary)

ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER

09/910,696

LIST OF INFORMATION PROVIDED BY APPLICANT APPLICANT Ronald M. Bass et al.

FILING DATE

GROUP ART UNIT

7/20/2001 3672

REFERENC	E DES	IGNATION	U.S. PA	TENT DOCUMENTS		The second second	
Examiner Initial	•	Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	JA	6,292,627	9/18/2001	Gilchrist, Jr. et al.	392	311	
	JB	6,305,429	10/23/2001	Welch et al.	138	149	
	JC	6,315,497	11/13/2001	Wittman et al.	405	158	
	JD	6,364,401	4/2/2002	Kim	296	194	
	JЕ	6,371,693	4/16/2002	Kopp et al.	405	158	
	JF	6,382,259	5/7/2002	Codling	138	149	
	JG	6,509,557	1/21/2003	Bass	219	772	
	JH	US 2003/0015436 A1	1/23/2003	Bass et al.	205	740	
	Л	US 2003/0015519 A1	1/23/2003	Stone, Jr.	219	494	
			FOREIGN	PATENT DOCUMENTS			
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	O	THER DOCUMENTS (I	NCLUDING A	UTHOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)	
	JR	Paraffin Control," Pape	r No. PCIC-90	astlund, "Evaluation of Dow -34 presented at Industry Ap on, Texas, Sep. 10-12, pp. 22	plications Soc		
	JS	Fred S. Epstein and Ga. 118.	ry L. White, "U	nderstanding Impedance He	eating,"Chemic	cal Engineering,	May 1996, pp. 112-
	JT			ewark, New Jersey, "Polyme Jew York-London-Syndey, p		valklene Oxides	and Other
EXAMINER				DATE CONSIDERED			

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.



LIST OF INFORMATION PROVIDED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. TH-2106 (US) APPLICATION NUMBER 09/910,696

APPLICANT

Ronald M. Bass et al.

FILING DATE

GROUP ART UNIT

•		,		7/20/2001	3672		
REFERENC	E DES	IGNATION	U.S. PA	TENT DOCUMENTS			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	KA	US 2003/0016028 A1	1/23/2003	Bass	324	642	
-	КВ	US 2003/0017007 A1	1/23/2003	Bass et al.	405	154.1	
	KC	US 2003/0020499 A1	1/30/2003	Bass	324	721	
	<u>1</u>	The second of th	FOREIGN	PATENT DOCUMENTS		TE NO TO NO.	
		Document No.	Date	Country	Class	Subclass	Translation Yes No
	O	THER DOCUMENTS (I	NCLUDING A	AUTHOR, TITLE, DATE	, PERTINENT	PAGES, ETC.)	
	KS	"General Product Speci advertisement, pp.	ficationPipel	ine Insulating Joint," Hydr	oTech Systems,	Engineered Pipe	eline Products,
	KT	H. Collins and M.A.R. Journal", Sept. 24, 1990		Reported in Design of Rec	elable Insulated	Subsea Flow Lir	es," Oil and Gas
	KU	K. H. Akfhampour, "A System", Paper no. PCI		ch to Solving Downhole Floor.	uid Flow Proble	ems by Use of an	Electric Heating
	KV			v. Delft. The Netherlands, 'rk-Tokyo, 1990; pp. 641-6		olymers", 3.sup.ı	d Edition (Revised),
	KW	M. I. Mollison, "Foam 80-82.	Insulation Gets	First Reeled Installation o	ff Australia," O	il and Gas Journ	al, May 18, 1992, pp.
	KX	Monobloc Insulating Jo	oints Type "IK"				
EXAMINER				DATE CONSIDERED			

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

6	TPE,	;\ ;\
AUI	6 0 7 2003	37 13
TO STORY	MADEMAN	-

LIST OF INFORMATION PROVIDED

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.

APPLICATION NUMBER 09/910,696

TH-2106 (US)

APPLICANT

Ronald M. Bass et al.

BY APPLICANT GROUP ART UNIT (Use several sheets if necessary) FILING DATE 7/20/2001 3672 REFERENCE DESIGNATION **U.S. PATENT DOCUMENTS** Examiner Filing Date if Initial Document No. Date **Patentee** Class **Subclass Appropriate** LA LB LC FOREIGN PATENT DOCUMENTS **Translation** Document No. Date Class Subclass Yes Country No LL OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) N. B. Carson, "A New Method for Heat Tracing Long Pipelines," ASME, 74-Pet-35, paper presented at the Petroleum Mechanical Engineering Conference, Dallas, Texas, Sep. 15-18, 1974, pp. 2-4. LN Protest Document, Dec. 8, 1987 letter of Andrew W. Marr, Jr. to the Assistant Commissioner of Patents requesting issuance of U.S. Patent 4,716,960 available in the file history as of January 5, 1988. LO R. Wash, "Electromagnetic Energy Helps Recovery," Gulf Coast Oil World,, Jun. 1986, pp. 18-19. LP "Taking Induction Heating Underwater," Process Heating, Jul./Aug. 1995, 1 p. LQ The Electrothermic Co. (TEC), 4916 Bear Lane, P.O. Box 4227, Corpus Christi, TX 78408 advertisement/sales brochure, 4 pp.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject 1. invention.
- 2. This is not a representation that a search has been made.

EXAMINER

FORM PTO-1449 (Modified)

REFERENCE DESIGNATION

LIST OF INFORMATION PROVIDED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO).
TH-2106 (US)	

APPLICATION NUMBER 09/910,696

APPLICANT

Ronald M. Bass et al.

FILING DATE 7/20/2001

GROUP ART UNIT 3672

U.S. PATENT DOCUMENTS

| Filing Date if

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing 1 Appro	
	MA	·						
No.	. 4 .	<u> </u>	FOREIGN P	ATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	Trans Yes	lation No
	MD							
	. O'	L THER DOCUMENTS (1	I NCLUDING AU	THOR, TITLE, DATE,	PERTINENT	PAGES, ETC.)		
	ME		for US Patent App	er Crossings" discussed blication SN 08/921,737, n Subsea Pipeline."				
	MF		Application SN 0	" discussed in Suppleme 18/921,737, filed August "				
	MG		22, 2000 for US	n Tank Cars et al." discus Patent Application SN 0 ut-In Subsea Pipeline."				
	МН	Paraffin Deposition in	Subsea Pipelines" Application S/N	ntion Discosure of R. M. as discussed in Supplem No. 08/921,737, filed Au	ental Informati	on Disclosure St	tatement fi	led on June
	MI	Purported Invention Di Haeber, dated April 28 discussed in Supplemen	sclosure of Productions, 1995. 'Apparatuntal Information D	ction Technologies Compass for Introducing Electric Disclosure Statement filed ed "Method for Mainting and "Method for Method for Meth	c Current into a l on June 22, 20	and Offshore Pip 000 for US Pater	oeline." 4pp nt Applicat	p as ion S/N No.
EXAMINER			1	DATE CONSIDERED				

- 1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- 2. This is not a representation that a search has been made.

PATENT TH-0844 N (US) MAS:KNL

I free to present that this correspondence is being deposited with the United States postal service as first-class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on or before:

(Jime 22 JED)

ark A. Smith (Date of Signature

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of) .
RONALD M. BASS ET AL)
Serial No. 08/921,737) Group Art Unit:
Filed August 27, 1997) Examiner: E. Lillis
METHOD FOR MAINTAINING WELL FLUIDS) S) June 22, 2000
WITHIN A SHUT-IN SUBSEA PIPELINE)

ASSISTANT COMMISSIONER FOR PATENTS Washington, DC 20231

P

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 (Modified) be considered by the Patent and Trademark Office in the above-entitled application and made of record therein.

This document presents additional disclosures in an organized form prepared for the convenience of the Examiner.

This submission further supplements the Information Disclosure Statement Under 37 CFR 1.56 and 1.97 filed November 24, 1997.

R:\LEGAL\MAS\AMDS\TH0844N SIDS

Pipe-in-Pipe Heating

• 2,224,403 has a short section of pipe-in-pipe at pipes 17 and 18.

Electrical Pipeline Heating and Electrical Feed

Additional references on electrical heating of pipes or pipelines include:

- 5,289,561 discloses heating a flexible pipe with electricity using a cable return.
- 4,645,906 uses an internal copper conductor to heat a pipe which is external to the copper conductor.
- 2,851,197 heats pipe with a system that uses a center feed and insulating elements 16 and 17.
- 2,306,831 also uses a center fed circuit.

Electrical Insulation

- <u>Properties of Polymers: Their Estimation and Correlation with Chemical Structure</u> discusses generally char formation issues for polymers.
- Polyethers: Part1. Polyalkyene Oxides and Other Polymers discusses polyoxymethylene (Delrin) thermal degradation. The absence of char formation may be inferred from text noting the almost complete loss of weight on heating the polymer in a vacuum. Other texts may be more explicit on favorable char formation characteristics of Delrin but, in any event, the use of Delrin is not broadly claimed apart from other limitations of the claims.

Pipe-in-Pipe Heating

GB 2,084,284 discloses a pipe within a pipe electrical heating system in the context of a subsea pipeline.

- GB 2,084,284 subsumes anecdotal issues for which we have no contemporaneous publication or documentation. The Applicants pursued rumors of electrical heating with prior pipe-in-pipe systems, uncovering several stories. Many are not offshore pipeline applications at all; none reported any joint analogous to that deployed in the illustrative embodiment of the present application. These anecdotal issues include:
 - Short pipe-in-pipe electrical heating systems which have been applied by Thermo Systems
 Technology for deployment under river crossings. (No document, but Ref. GR on PTO1449)

- A fuel oil line between two buildings spaced several hundred yards apart that used electric pipe-in-pipe heating. The heating facilitated flow of fuel oil for heating purposes during cold months. (No document, but Ref. FS on PTO-1449)
- Gary White, author of <u>Understanding Impedance Heating</u> offered background on pipe-inpipe heating to one of the Applicants as follows:

My experience with pipe-in-pipe technology has been exclusively in tanker car heater systems. We Utilize a 2" schedule 80 pipe inside a 4" schedule 40 pipe at a length of 42 feet. INDEECO completed their design in 1995 and has produced several installations. Another manufacturer of these systems that has greater experience is Bob Yurkanin of Electran. My understanding is Bob has been providing these systems for in excess of ten years.

In addition Mr. White described some long distance pipe-in-pipe work that was entering "very preliminary stages" in 1998 (well after the effective filing date of the present application). (No contemporaneous document, but Ref. FT on PTO-1449).

- Evaluation of Downhole Electrical Impedance Heating Systems for Paraffin Control in
 Oil Wells is now noted as also referencing control gas hydrates in gas wells.
- Purported invention disclosure by Eastlund and Haeber dated April 28, 1995. This document is not a publication. It is filed separately, with the present Supplemental Information Disclosure Statement, to request special treatment pursuant to MPEP 724.02. It is listed on PTO-1449 (Modified) as Ref. FR. This document is characteristic of the inventorship dispute between Shell and PTC. Both this and an unnotarized prior draft are after our investigation show Shell disclosed the idea to PTC. This document also references how PTC asserts the present invention is related to its prior patent for heating tubing in a well bore. These assertions of infringement, etc., were previously disclosed to the Examiner.

Induction and Impedance Heating

Additional references on electrical heating of pipes or pipelines with impedance systems include:

- Taking Induction Heating Underwater
- Understanding Impedance Heating

Some of these emphasize subsea applications:

- Heating of Pipelines, and Power Supply to Subsea Electrical Equipment
- <u>Combi Pipe</u> (Alcatel Contracting Norway brochure) is an undated brochure, but we have been advised that this system was demonstrated as early as 1993.
- Introduction to Direct Heating of Subsea Pipelines is dated Feb. 1998, but we are advised
 that Statoil had demonstrated such a system as disclosed therein prior to the Applicants'
 conception of the present invention.
- Why Use Skin Effect Pipe Heating? is a Thermo Systems Technology brochure. Though
 not discussed in this brochure, Applicants have been advised that this system was
 deployed in an offshore application.
- Disclosure for Controlling Paraffin Deposition in Subsea Flowlines by R.M. Bass, dated July 24, 1986. This is not a printed publication. It is a disclosure by one of the inventors of the present application at a time when he worked for PTC. Mr. Bass would have no duty of assignment to Shell for this work. Applicants do not believe this disclosure to be relevant, but believe the Examiner should have the opportunity to see it as it was cited to Shell in connection with the unresolved inventorship dispute referenced in one of the earlier Disclosure Statements. This document is filed separately, with the present Supplemental Information Disclosure Statement to request special treatment pursuant to •MPEP 724.02. It is listed on Form PTO-1449 (Modified) as Ref. FS.

Pipe-in-Pipe Thermal Insulation

New Double Pipe Insulated System (DPIS) Designed by Snamprogetti discloses an
offshore pipeline having a pipe-in-pipe configuration for thermal insulation, including
filling the annular cavity with polyurethane foam. This document is undated but
Applicants have been informed that this system precedes their conception of the present
invention.

Coaxial Bus Ducts

Applications of extremely high voltage and current have used coaxial bus ducts in the transmission of power. An example of such an application is illustrated:

Compressed Gas Insulated Transmission Bus Ducts (Ref. CS) and World wide
 Experieince List—Compressed Gas Insulated Transmission Bus System Type CGIT
 describe a general class of power transmission fixtures. Centalizers are also illustrated.
 These describe some systems installed as early as the 1970s and precede the Applicants' invention.

Insulated Joints and Signals

Additional insulated joints and signal systems are disclosed as follows:

- Australia 103,122 discloses an insulative joint for passing electrical current into beer as
 it is drawn from a keg.
- US 3,184,958 discloses a pipe-in-pipe conduit system that provides for the passage of monitoring lines for sensing leaks. Filling the annulus with inert, low moisture gas is also disclosed.
- US 4,839,644 discloses a pipe-in-pipe method and system for communicating signals and low (instrumentation level) power transmission in a cased borehole having a tubing. Commercialization of this system is known as the Tucatran or Tucas system. See the reference from the Schlumberger web page. Though dated June 1996, Applicants have been advised that this was used at least as early as 1993.

The Examiner is requested to fully consider this information and to indicate consideration on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicants. No representation is made or intended that a search has been made or that no better art than that listed exists.

Respectfully submitted,

RONALD M. BASS ET AL

By:

Their Attorney, Mark A. Smith

Registration No. 30,220

(713) 241-2094

P. O. Box 2463 Houston, TX 77252-2463

Attachments

EXAMINER

AUG 0 7 2003

ATTY. DOCKET NO. TH-0844N (US)

LICATION NUMBER 921.737/

LIST OF INFORMATION PROVIDED

BY APPLICANT BY APPLICANT

APPLICANT

Robert H. Wittman et al

(U	se several sneets if necessary)		MADEMAN	FILING DATE August 27, 1997	GROUP ART	UNIT	
REFERENCE	DESIGNAT	ION	U.S.	PATENT DOCUMENTS			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	2.224.403	12/10/40	H. A. Lines	219	39	
	AB	2.306.831	12/29/42	J. R. Proctor	219	.39	
	AC	2.851.197	9/9/58	G. W. Colton	222	146	
	AD	4.645.906	2/24/87	C. M. Yagnik et al	219	301	
	AE	5,289,561	2/22/94	F. H. Costa	392	478	11/1/91
	AF	4.839.644	6/89	Safinya et al.	340	854	
	AG						
	AH						
	AI						
			 FORE	IGN PATENT DOCUMENTS			
mental fill treated to		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL	103.122	4/37	Australia	27.8	07.6	
	AM	2,084,284	4/82	GB	F16L	53/00	
•	AN						
	AO						
):::::::::::::::::::::::::::::::::::::		OTHER DOCUMEN	TS CINCLUDING	 AUTHOR. TITLE, DATE: PER	TINENT PAGES	L S: ETC.)	
	AR	Krevelen, D. W.,	Univ. of Tech	nology, Delft, The Nethe msterdam-Oxford-New York	rlands. "PRO	OPERTIES OF P	OLYMERS", 3 rd
•	AS	1 9	•	ates. Newark. New Jersey cience Publishers: New Yo			
		Brochure WHY III	CE CVIN EEEECT	PIPE HEATING? Thermo S	vetome Toche	vology Inc F	our Commerce

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not $conformance \ \underline{\text{and not considered. Include copy of this form with next communication to the applicant.} \\$

DATE CONSIDERED

The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention. 1. This is not a representation that a search has been made. 2.

LIST OF INFORMATION PROVIDED BY APPLICANT

ATTY. DOCKET NO. TH-0844N (US)

OLICATION NUMBER J/921.737

APPLICANT:

es a mind

(Use	several	sheets if necessary)		FILING DATE	GROUP ART	UNIT		
REFERENCE D	FS I GNAT 1	ON	U.S.	PATENT DOCUMENTS	<u> </u>			
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Dat Appropriat	
	ВА							
•	BB							
	BC							
122	BD							
	BE							
	BF							
	BG				·			·
	ВН							
	BI							
		ra — Politica de Santo de Sant	FOREI	GN PATENT DOCUMENTS			· · · · · · · · · · · · · · · · · · ·	
		Document No.	Date	Country	Class	Subclass	Translat Yes	No No
	BL							
	ВМ			·				
	BN							
	ВО							
				UTHOR, TITLE, DATE, PER				
	BR	in Oil Wells." Pa Petroleum and Chem	per No. PCIC ical Industry	of Downhole Electric Im -90-34, 1990, presented Conference, Houston, Te	at Industry xas Sept. 10	Applications J-12. 1990. pp	Society 37 th D. 223-227.	n Contro M Annual
	BS	Equipment. Aker Er 1995. 23 pp.	ngineering a.	ating of Pipelines. and s A. Bjømstad and B. Knu	tsen. Alcate	el Contracting	Norway a.s	s DOT
	ВТ	"Taking Induction	Heating Unde	rwater." <u>PROCESS HEATIN</u>	<u>G</u> July/Augu	ust 1995, 1 p.		
EXAMINER		<u> </u>		DATE CONSIDERED			-	

The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention. 1.

^{2.} This is not a representation that a search has been made.

gi i taga dan ta a dagan sunas inda da dagan da	ndan of the meaning design						Sheet	3 of
FORM PTO-14	149 (Modi	fied)	PRI	ATTY. DOCKET NO. TH-0844N (US)	LICATIO /921.73	on Number 17		
	LIST OF	INFORMATION PROVIUSE BY APPLICANT	0 7 2003	APPLICANT				
(Us	se several	sheets if necessory)	ADFN:	FILING DATE	GROUP ART	UNIT		
REFERENCE I	DESIGNATI	ON	U.S.	PATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing D Appropri	
	CA		·					
	СВ							
	CC							
	CD					·		
	CE	<u> </u>						
	CF							
	CG						 	
	СН		•					
	CI			-			,	
			l Fore	 IGN_PATENT: DOCUMENTS		1		
Telliplane (# 1821)		Document No.	Date	Country	Class	Subclass	Transl Yes	ation No
	CL						·	
	CM			-				
	CN							
	CO							
		OTHER DOCUMENT Fred S. Epstein ar 1996, p. 112-118.	 S*(INCLUDING d Gary L. Wh	 AUTHOR, TITLE, DATE, PE ite. " Understanding Imp	 RTINENT PAGES Dedance Heatin	#ETC:) g." <u>Chemica</u>	 Engineeri	l ng. May
	CR		reless Teleme	etry (Tucas System)." S	Schlumberger w	eb page (199	3?/June 199) 6), 16

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not i conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

pp. (See text of Supplemental Information Disclosure Statement re supposed date of technology

Brochure - World Wide Experience List - Compressed Gas Insulated Transmission Bus System Type CGIT.

ABB Power T & D Company Inc.. 30 Oak Street. Westborough, MA 01581. USA. 6 pp. (Describes work from 1972. dated 10/96. See text of Supplemental Information Disclosure Statement re supposed date of

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

2. This is not a representation that a search has been made.

technology described.)

described.)

CT

EXAMINER

FORM PTO-14	49 (Modi	fied)		ATTY. DOCKET NO. TH-844N (US)	. PPLICATIO - 08/921.73			
	LIST OF	INFORMATION PROVIDED		APPLICANT .	1983 1983			
/II-		BY APPLICANT		FILING DATE	GROUP ART	IINIT		
(US	e severa	l sheets if necessary)		FILING DATE	GROUP ART	UNII		
REFERENCE D	ESIGNAT	ION	U.S. 1	PATENT DOCUMENTS				
Examiner Initial		Document No,	Date	Patentee	Class	Subclass	Filing D Appropri	
	DA							
*	DB				-			
	DC	· · · · · · · · · · · · · · · · · · ·						
<u> </u>	DD							
	DE							
	DF							
	DG							
	DH							
				-				
	DI							
	17 7 14 17 17		FOREIG	N PATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	Transl Yes	No
	DL							
	DM							
	DN							
	DO		•					
		- OTHER DOCUMENTS	(INCLUDING AU	L THOR, TIMLE, DATE, PER	I TINENT PAGES,	L ETC:)		
	DR	Westborough, MA USA.	22 pp. (Un	ssion Bus Ducts, ABB Po dated. Describes work re supposed date of t	from 1972.	See text of S	B Division Supplement	al
	DS	Brochure - New Doubl Division, 6 pp. (Se technology described	ee text of Su	ated System (DPIS) Des pplemental Information	igned by Snam Disclosure S	progetti. Sna tatement re s	amprogetti supposed d	Offshore ate of
	DT	Brochure - Combi Pip Engineering 7 pp supposed date of ted	(Undated. S	of clogged pipelines, ee text of Supplementa ribed.)	Alcatel Cont Il Information	racting Norwa Disclosure S	ay and Ak Statement	er re
EXAMINER		· · · · · · · · · · · · · · · · · · ·	., <u> </u>	DATE CONSIDERED				
		·		<u> </u>	 	<u></u>		

^{1.} The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention

^{2.} This is not a representation that a search has been made.

FQRM PTO-14	49 (Modi	fied)	SIPE	ATTY. DOCKET NO. TH0844N (US)	LICATIO 2.,921.73	on Number 37	-	
	LIST OF	INFORMATION PROVIDED	· Va	APPLICANT	1 33322.11		· · · · · · · · · · · · · · · · · · ·	
		BY APPLICANT AL	16 0 7 2003 S					
(Us	e several	BY APPLICANT ALL Sheets if necessary		FILING DATE	GROUP ART	UNIT		
REFERENCE I	FSTGNAT	TON	PADEMARK U.S.	PATENT DOCUMENTS				
Examiner							Filing C	
Initial		Document No.	Date	Patentee	Class	Subclass	Appropri	iate
	FA						1.	
	FB							
	FC							
	10							
	FD							
	FE							
	FF		<u> </u>					
							,	-
	FG		•					
	FH							
	FI					_		
		ease, of the Committee of the American				other special to the special	i - k i ta rimer	
			FUREL	GN PATENT DOCUMENTS			Transl	
		Document No.	Date	Country	Class	Subclass	Yes	No
	FL	,						
	FM							
	FN							
	F0							
		I OTHER DOCUMENTS ((INCLUDING A	L UTHOR, TLTLE, DATE, PERT	INENT PAGES	, ETC.)		
and a state of the		" Introduction to Di		of Subsea Pipelines."				
	FR			EFI, Feb. 1998. (Undat d date of technology des		ct of Suppreme	ental Into	rmation
-		Anecdote - Fuel Oil	Retween Rui	ldings (See text of Supp	lemental Int	formation Disc	losure St	atement)
	FS	Allecdote - I de l'Oll	Decween but	ruriigs (see text or supp	Temerical III	ormation bis	.103416 36	a cements. 7
				er from Tank Cars et al.	(See text	of Supplemen	tal Inform	nation
	FT	Disclosure Statement)	•				
CVANINCD			·	DATE CONSTDERED				
EXAMINER				DATE CONSIDERED				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP \$ 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

^{2.} This is not a representation that a search has been made.

ATTY: DOCKET NO. TH0844N (US) PLICATION NUMBER 3/921.737

LIST OF INFORMATION PROVIDED BY APPLICANT

lica coveral cheets if necessary)

FILING DATE

APPLICANT

GROUP ART UNIT

(Use	several	sneets if necessary)		FICING DAGE	GROOF ART	ONT		
REFERENCE DE	SIGNATI	ON	U.S. F	ATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing D Appropri	
	GA							
,	GB							
	GC			·				
7	GD							
	GE							
	GF							
	GG							
	GH		!					
	GI					Colone The Bill Chear	Tank and	
			FOREIG	N PATENT DOGUMENTS			Transl	
		Document No.	Date	Country	Class	Subclass	Yes	No 1
	GL.							
	GM							
	GN							
	GO						archia Sheriumirishe (She	Marin 2007
		OTHER DOCUMENTS	(INCLUDING AU	THOR, TITLE, DATE, PERT	INENI PAGES	EIG,)	6:	
	GR	Statement.)		river crossings. (See te				
	GS	Company, L.L.C. (P) Offshore Pipeline,	<pre>FC) dated Apri 4 pp. (See rsuant to MPEP</pre>	y Bernard J. Eastlund ar 1 28, 1995, "Apparatus discussion in the Suppl 724,02,)	for Introdu emental Inf	cing Electri	c Current closure St	into an
	GT	Production Technolo "Disclosure for Co	ogies Company ontrolling Par	Invention Disclosure of affin Deposition in Subsure Statement. Note als	ea Flowline	s." (See d	iscussion	in the
EXAMINER				DATE CONSIDERED				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not i conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

2. This is not a representation that a search has been made.

FORM PTO-14	49 (Modit	fied)	PE	ATTY. DOCKET NO.	LICATIO	N NUMBER	•	
	LIST OF	INFORMATION PROVIDED BY APPLICANTALE	<i>'5</i>)	APPLICANT				
(Use	e several	sheets if necessary).	DEMARK GRAN	FILING DATE	GROUP ART	UNIT		
REFERENCE D	ESIGNATI	ON	U.S.	PATENT DOCUMENTS				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing D Appropri	
	НА	·	· · · · · · · · · · · · · · · · · · ·					
	НВ							· ·
	HC		L .==					
	HD							
	HE	,						
	HF							
	HG							
	НН							
	HI	,						
	į (1	1	1			
			I FORE-I	GN PATENT DOCUMENTS				
		Document No.	FOREI Date	GN PATENT DOCUMENTS Country	Class	Subclass	Transl Yes	ation No
The second	HL		. 13 De 11 - 22 A MANAT A.				Transl Yes	
			. 13 De 11 - 22 A MANAT A.				Transl Yes	
	HL		. 13 De 11 - 22 A MANAT A.				Trans1 Yes	
	HL HM HG HO	Document No.	Date	Country	Class	Subclass	Yes	
	HL HM HG HO	Document No.	Date		Class	Subclass	Yes	
	HL HM HG HO	Document No.	Date	Country	Class	Subclass	Yes	
	HL HM HG HO	Document No.	Date	Country	Class	Subclass	Yes	
	HL HM HG HO	Document No.	Date	Country	Class	Subclass	Yes	
	HL HM HG HO	Document No.	Date	Country	Class	Subclass	Yes	
EXAMINER	HL HM HG HO HR	Document No.	Date	Country	Class	Subclass	Yes	

conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.

2. This is not a representation that a search has been made.